UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO.   : 7,579,453
APPLICATION NO. : 10/561,487
ISSUE DATE   : August 25, 2009
INVENTOR(S)   : Drayna *et al.*

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Specification:

Column 2, line 32: "PTC)" should read –(PTC)–

Column 12, line 13: "Its" should read –In–

Column 18, line 65: "1989)." should read –1989)).–

Column 22, line 7: "that predicted" should read –that are predicted–

Column 27, line 36: "thereof In" should read –thereof. In–

Column 30, line 26: "comprising" should read –comprise–

Column 31, line 45: "of consisted of" should read –consisted of–

Column 32, line 61: "Online.)" should read –Online)–

Column 33, lines 22-23: "$p<10^-{}_{10}$)" should read –$p<10^{-10}$)–

Column 39, line 28: "Nucleic Acid/(Amino" should read –Nucleic Acid/Amino–

Column 42, line 31: "regions Kaplan et al." should read –regions (Kaplan et al.–

Column 42, line 58: "25, 549" should read –25,549–

Column 42, line 60: "1, 627" should read –1,627–

Column 45, line 10: "AU SNPs" should read –All SNPs–

Column 45, line 26: "4 A SNPs" should read –4.4 SNPs–

Column 45, line 30: "observed FIG." should read –observed (FIG.–

Column 48, lines 2-3: "method of (Excoffier, *Curr.*" should read – method of Excoffier (*Curr.*–

Column 48, line 12: "$allele_{13}$ frequency $_{13}$ project" should read –allele_frequency_project–

Column 62, line 10: "condition believed" should read –condition is believed–

Column 66, line 44: "T2R's" should read –T2Rs–

Column 66, lines 49-50: "et aL" should read –et al.–

MAILING ADDRESS OF SENDER:
    Klarquist Sparkman, LLP
    One World Trade Center, Suite 1600
    121 SW Salmon Street
    Portland Oregon, 97204

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO.   : 7,579,453
APPLICATION NO. : 10/561,487
ISSUE DATE   : August 25, 2009
INVENTOR(S)   : Drayna *et al.*

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 68, line 62: "described Tang" should read –described by Tang–

Column 72, lines 60-61: "methods can determine" should read –methods that can determine–

Column 73, line 49: "form Or," should read –form. Or,–

Column 73, line 60: "CHARMM" should read – CHARMm–

Column 82, line 36: "material.," should read –material, –

Column 85, line 25: "variant" should read –variant.–

In the Sequence Listing:

Descriptor <223> for position 8 of SEQ ID NO: 5: "y is t or c" should read –r is a or g–

In the Claims:

Column 97, lines 22-23: "C/A at position 638" should read –G/A at position 638–

Column 97, line 31: "C/T at position 867" should read –G/T at position 867–

Column 97, line 37: "A/G at position (SEQ" should read –A/G at position 776 (SEQ–

Column 99, line 9: "NO: 193;" should read –NO: 193);–

Column 99, line 20: "position 94 of T1R48" should read –position 94 of T2R48–

Column 99, line 54: "position 186 of T1R4" should read –position 186 of T2R4–

Column 100, line 2: "T9R9" should read –T2R9–

Column 100, line 7: "T9R10" should read –T2R10–

Column 100, line 11: "T9R16" should read –T2R16–

Column 100, line 22: "NO: 193;" should read –NO: 193);–

Column 100, line 41: "position 499" should read –position 429–

MAILING ADDRESS OF SENDER:
Klarquist Sparkman, LLP
One World Trade Center, Suite 1600
121 SW Salmon Street
Portland Oregon, 97204

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO.   : 7,579,453
APPLICATION NO. : 10/561,487
ISSUE DATE   : August 25, 2009
INVENTOR(S)   : Drayna *et al.*

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 102, lines 28-29: "at least "about 10 contiguous nucleotides spanning at least", one" should read –at least about 10 contiguous nucleotides spanning at least one–

MAILING ADDRESS OF SENDER:
        Klarquist Sparkman, LLP
        One World Trade Center, Suite 1600
        121 SW Salmon Street
        Portland Oregon, 97204